

#24M  
5.10.00  
Laroia 14-7-3-3

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): R. Laroia et al.  
Case: 14-7-3-3  
Serial No.: To Be Assigned  
Filing Date: February 11, 2000  
Title: Signal Construction, Detection and Estimation for  
Uplink Timing Synchronization and Access Control  
in a Multi-Access Wireless Communication System  
Group: To Be Assigned  
Examiner: To Be Assigned



---

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants' attorney wishes to bring to the attention of the Patent and Trademark Office the following documents listed on the accompanying Form PTO-1449. A copy of each listed document is enclosed.

1. S. Gupta, "Phase-Locked Loops," Proceedings IEEE, Vol. 63, pp. 291-306, February 1975.
2. W. Lindsey and C. Chie, "A survey of digital phase-locked loops," Proceedings IEEE, Vol. 69, pp. 410-432, 1981.
3. L. Franks, "Synchronization subsystems: analysis and design," Digital Communications, Satellite/Earth Station Engineering, K. Feher, ed., Prentice-Hall, Englewood Cliffs, NJ, pp. 294-325, 1981.
4. H. Meyr and G. Ascheid, "Synchronization in Digital Communications," New York, NY: Wiley Interscience, pp. 21-35, 1990.
5. J. Proakis, "Digital Communications," New York, NY: McGraw-Hill, 3rd ed., pp. 333-371, 1995.

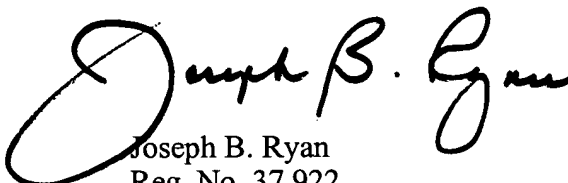
6. A.J. Viterbi, "CDMA: Principles of Spread-Spectrum Communication," New York, Addison Wesley, Appendix 3A, pp. 68-75, 1995.

7. A. V. Oppenheim and R.W. Schaffer, Digital Signal Processing, Englewood Cliffs, NJ, Prentice Hall, pp. 238-269, 1975.

8. J. L. Brenner, "Application of Chebychev Polynomials to Antenna Design," in Topics in Polynomials of One and Several Variables and their Application, T. M. Rassias, H.M. Srinivastava and A. Yanashaukas, editors, World Scientific Publ., pp. 101-108, 1993.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability, or as a representation that no other material information exists.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Joseph B. Ryan". The signature is fluid and cursive, with a large initial "J" and a stylized "B".

Joseph B. Ryan  
Reg. No. 37,922  
Attorney for Applicant(s)

Date: February 11, 2000  
**Ryan & Mason, L.L.P.**  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-7517